WO 2005/018030 PCT/GB2004/003443

- 13 -

## Claims

 A process for producing an electrode which comprises forming an electrode precursor comprising a layer
 comprising an intercalation material, and then applying stabilised lithium metal particles to the surface of the electrode precursor.

- A process according to claim 1 wherein the particles
   are applied to the anode.
  - 3. A process according to any one of the preceding claims wherein the particles are suspended in a liquid for application to the electrode precursor.

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- 4. A process according to claim 1 or 2 wherein the particles are formed into a slurry or suspension and dispersed over the electrode precursor.
- 20 5. A process according to claim 1 or 2 wherein the particles are applied by electrostatic transfer.
- A process according to any one of the preceding claims wherein the particles are fixed to the electrode
   surface by rolling.
  - 7. A process according to any one of the preceding claims wherein the stabilised lithium metal particles are mixed with carbon particles.

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8. A process according to any one of the preceding claims wherein the electrode precursor is a composite electrode precursor comprising an active material and a binder, and prepared using a solvent for the binder.

WO 2005/018030 PCT/GB2004/003443

- 14 -

- 9. A process according to claim 10 wherein the active material is carbon.
- 10. A process according to claim 10 or 11 wherein the 5 binder is polyvinylidene fluoride (PVdF).
  - 11. A process according to any of claims 8 to 10 wherein the process for producing the electrode precursor comprises the steps of

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- i) mixing the active material, binder and solvent together to achieve a uniform mix
- ii) coating the mixture onto a thin copper foil,15 with controlled evaporation of the solvent
  - iii) drying the electrode
  - iv) calendaring the electrode, and

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- v) vacuum drying the electrode, before applying the stabilised lithium metal powder to the electrode precursor.
- 25 12. An electrode comprising an intercalation material and a surface coating of stabilised lithium metal particles.
- 13. A process for producing a separator for use in a
  30 cell comprising an intercalation material which process
  comprises forming a separator precursor and applying
  stabilised lithium metal particles to the surface of the
  separator precursor.
- 35 14. A process according to claim 13 wherein the

WO 2005/018030 PCT/GB2004/003443

- 15 -

particles are suspended in a liquid for application to the separator precursor.

- 15. A process according to claim 13 wherein the 5 particles are formed into a slurry or suspension and dispersed over the separator precursor.
  - 16. A process according to claim 13 wherein the particles are applied by electrostatic transfer.

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17. A separator for use in a cell comprising an intercalation material which separator comprises a separator precursor and a surface coating of stabilised lithium metal particles.

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- 18. A cell comprising an electrode produced according to any one of claims 1 to 11.
- 19. A cell comprising an electrode according to claim 20 12.
  - 20. A cell comprising a separator produced according to any one of claims 13 to 16.
- 25 21. A cell comprising a separator according to claim 17.
  - 22. A battery comprising one or more cells according to any one of claims 18 to 21.